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504   HIGHWAY PATROL

Version: 2007-B-01-00504

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Agency IT Overview

Agency IT Plan Contact Data

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Agency Technology Goals And Objectives

Goal 1: Provide the North Dakota Highway Patrol with modern IT tools and support.

Objectives:

Provide state of the art law enforcement based applications

Explorer new technologies and their potential NDHP uses, as they become available.

Analyze business procedures and implement appropriate changes to improve efficiency.

Goal 2: The NDHP will provide training necessary to allow its employees to function as efficiently as possible.

Objectives:

Develop and maintain a plan for training based on individual needs.

Provide training as deemed necessary.

Keep training current through state contract, in-service, and other appropriate methods.

Goal 3: Continue to look for ways to expand information dissemination via the web.

Objectives:

Redevelop agency web page to reach target audiences, such as young drivers.

Expand our E-permit application to better serve the trucking industry.

Goal 4: Assist State Radio in enhancing Mobile Data communication

Objectives:

Research and implement CAD (Computer Aided Dispatch)

Continue to aid local law enforcement

Goal 5: Research the feasibility of migrating to Digital In-car Video

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Objectives:

Establish requirements for the system, including back end storage

Establish effective means of transfer (wireless, hard drive, CD)

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1. If applicable, describe the reason for any extraordinary increase or decrease in your infrastructure costs.

The Highway Patrol is showing an increase is basic Data Processing costs due to ITD rate increases in several areas including T-1 use, and application hosting. During the 05-07 biennium, the HP acquired all Capitol Security functions, during that acquisition the HP did not receive funding for software upgrades or data ports needed to support the Capitol Complex card access system.

2. Total number of desktop computers: 70
   Number of desktops for which you are requesting replacement funding: 35
   Average replacement cost/desktop: 1,400

3. Total number of laptop computers: 160
   Number of laptops for which you are requesting replacement funding: 70
   Average replacement cost/laptop: 4,000
What state planning region are these desktop/laptop computers located?
Region 1 16 **2** 21 **3** 13 **4** 26 **5** 29 **6** 16 **7** 95 **8** 14

4. What percentage of these pcs are running the following operating systems:
   (total should be equal to 100%)

Windows 98	0 %
Windows NT	0 %
Windows 2000	5 %
Windows XP	95 %
Other	0 %

5. What additional expenditures are being paid out of non-appropriated funds? 0
Please explain:

Agency Technology Activities
Our infrastructure consists of PC and Mobile Data Laptop replacement, regular phone and cell phones costs, software, and regular data processing charges.

PC/Mobile Data Laptop Replacement:
The North Dakota Highway Patrol operates and maintains 70 networked PCs and 160 non-networked Mobile Data laptops. Our computers are scattered across the state in 46 separate locations. We have established a 4 year replacement cycle on all of our computers and laptops. During the 07-09 biennium, the HP will be replacing half of the pcs and 40% of the laptops. The average cost per PC is estimated at $1400, this includes both office automation and power user machines. The average cost per laptop is $4000, these laptops would fall into the custom category as they are ruggedized for use in extreme temperatures and environments. Touch screen and backlit keyboard functionality is also important for officer safety.

Phone/Cell Phone:

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Regular phone and long distance services are provided to us by ITD using the state meridian system. Our cell phone services are provided by Cellular One under state contract. Currently, cell phones are distributed to staff officers, district commanders, district sergeants, federal program personnel, executive security personnel, and on-call IT staff.

Software:
The HP runs several types of specialized software packages that have yearly updates and/or maintenance agreements. One of the main packages is Accident Reconstruction. This software is used by our officers to diagram serious accidents. Each of our 8 district offices have at least one reconstructionist on staff.

Regular Data Processing:
Regular data processing is defined as all monthly on-going charges billed to us by ITD, excluding special programming projects.

Networking and application hosting are the most significant costs. Each of our offices is equipped with a T-1 line for access to the network.   ITD host several applications for the Highway Patrol.
1.   Daily Activity System: This system provides a detailed record of each officer's activities. It tracks the amount of time worked during the shift, the number of specific activities done such as equipment weighed, overtime, leave time, and mileage. Several automated process are associated with this application: mileage is submitted for NDDOT for billing, and overtime and leave time are sent to Peoplesoft. Data entry for this system is done by the troopers via mobile data.
2.   Case Management System: This system tracks citations, field contacts, and case/incidents. Access to this system by the troopers is done via mobile data. With the use of this system, we are able to have a completely electronic traffic stop. From January 1, 2005 – December 31, 2005 the Highway Patrol completed 89% of their citations online. This system also sends citations each day for the Supreme Court thus eliminating duplicate data entry.
3.   E-Permits: This is a web-based system for the sale of Oversize/Overweight permits. We offer several permit types online. In 2005, we took in $249,800 in revenue.
4.   Web-citations: This system was designed for use by the States Attorney's and the clerks of court to inquire on any citations done by the Highway Patrol.

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		CURRENT APPROPRIATION	BUDGET REQUEST	OPTIONAL ADJUSTMENTS	REQUEST PLUS OPTIONALS	SUBSEQUENT BIENNIUM
IT5310	IT SOFTWARE AND SUPPLIES	$102,000	$102,000	$0	$102,000	$0
IT5510	IT EQUIPMENT UNDER $5000	$318,000	$318,000	$0	$318,000	$0
IT6010	IT DATA PROCESSING	$510,000	$544,000	$0	$544,000	$0
IT6020	IT COMMUNICATIONS	$174,000	$174,000	$0	$174,000	$0
	Total Budget:	**$1,104,000**	**$1,138,000**	**$0**	**$1,138,000**	**$0**
001	STATE GENERAL FUND	$798,000	$823,000	$0	$823,000	$0
400	HIGHWAY TAX DISTRIBUTION FUND - 400	$260,000	$266,000	$0	$266,000	$0
P016	MTR CARRIER SAFETY ASSISTANCE PROGR	$8,000	$8,000	$0	$8,000	$0
SPEC1	IT SPECIAL FUNDS	$38,000	$41,000	$0	$41,000	$0
	Total Funding:	**$1,104,000**	**$1,138,000**	**$0**	**$1,138,000**	**$0**

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Agency Priority - 1   **Project Type:** New initiative

Project description

The project is for the purchase of an Evidence Tracking System for each of our 8 district offices. Each year, the Highway Patrol takes in over 3,000 items that need to be stored as evidence until disposition of the case. Items in storage range from liquor, weapons, and drugs. Because of the volume of items, finding them months later for court has proved to be time intensive. Due to the sensitive nature of evidence and its handling procedures the system may need to be stand alone.

Briefly describe the business need or problem driving the proposed project.

Over the last 3 year period, we have seen a steady increase in criminal cases involving evidence. Our 8 evidence vaults are overwhelmed with items, and it have become a time intensive process tagging, tracking, and distroying evidence.

Describe how the project is consistent with the organizations mission.

The mission of the HIghway Patrol to make a difference every day by providing high quality law enforcement services to keep North Dakota safe and secure. This project will assist in that by decreasing the time spent cataloging, sorting, and tracking of evidence. The increase in evidence is a direct link to the job our troopers are doing.

Describe the anticipated benefits of the project and who will derive the benefits.

The benefits to this project are as follows: Process evidence entering the Department in a timely and cost-effective manner, increased organization in evidence vaults, and a detailed chain of custody log of each item. The major benefit is less office time, which results in more time on the roadways which is a benefit for the citizens of North Dakota.

Describe the impact of not implementing the project.

Not implementing an evidence tracking system will result in less road patrol time and more administrative time handling evidence. Currently a manual type written log is maintained at each evidence storage location.

Identify any risks associated with implementing this project and explain how the risks will be mitigated.

-Software system will not run on existing hardware. Solution: We would need to purchase either a dedicated laptop or desktop for evidence. -Additional ports and/or wiring maybe needed. Solution: We will work with ITD to obtain the neccessary ports.

Describe the additional costs?

N/A

Enter any additional costs for the project that are not included in IT Object Codes used in the Project Cost Screen?

Additional Costs? - $0

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Optional Project Costs - $0

Total Project Cost? - $0

Tot Proj Costs + Optionals - $0

What additional expenditures are being paid out of non-appropriated funds?

N/A

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		CURRENT APPROPRIATION	BUDGET REQUEST	OPTIONAL ADJUSTMENTS	REQUEST PLUS OPTIONALS	SUBSEQUENT BIENNIUM
IT6010	IT DATA PROCESSING	$0	$66,000	$0	$66,000	$0
	Total Budget:	**$0**	**$66,000**	**$0**	**$66,000**	**$0**
001	STATE GENERAL FUND	$0	$48,000	$0	$48,000	$0
400	HIGHWAY TAX DISTRIBUTION FUND - 400	$0	$18,000	$0	$18,000	$0
	Total Funding:	**$0**	**$66,000**	**$0**	**$66,000**	**$0**